

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOTS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name: TestAmerica Job ID Number: Sample Depth (feet bgs): Date Collected:	Units	Ecologically Based Screening Level	SD-SD-34 (0-0.5) 20025732 0 - 0.5 12/03/2014 Result Q	SD-SD-34 (0-0.5) 20025732 0 - 0.5 12/03/2014 Second. Q	SD-SD-35 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-35 (0.05) 20025782 0 - 0.5 12/05/2014 Second. Q	SD-SD-36 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-36 (0.05) 20025782 0 - 0.5 12/05/2014 Second. Q	SD-SD-37 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-37 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-DUP1-120514 20025782 SD-37 12/05/2014 Result Q
<b>Volatile Organic Compounds</b>											
1,1,1-Trichloroethane	mg/kg	0.213	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,1,2,2-Tetrachloroethane	mg/kg	0.85	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,1,2-Trichloroethane	mg/kg	0.518	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,1-Dichloroethane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,1-Dichloroethene	mg/kg	0.0194	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,2,3-Trichlorobenzene	mg/kg	NS	0.001 JB	0.00083 JB	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,2,4-Trichlorobenzene	mg/kg	5.062	0.001 JB	0.0007 JB	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,2-Dibromo-3-chloropropane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,2-Dibromoethane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,2-Dichlorobenzene	mg/kg	0.294	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,2-Dichloroethane	mg/kg	0.26	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,2-Dichloropropane	mg/kg	0.333	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,3-Dichlorobenzene	mg/kg	1.315	0.023 U	0.022 U	0.021 U	0.00047 JB	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,4-Dichlorobenzene	mg/kg	0.318	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
1,4-Dioxane	mg/kg	NS	0.46 U	0.44 U	0.42 U	0.41 U	0.54 U	0.52 U	0.18 U	0.17 U	0.1900 U
2-Butanone	mg/kg	NS	0.13	0.11	0.26	0.22	0.24	0.41	0.029	0.058	0.0290
2-Hexanone	mg/kg	NS	0.046 U	0.044 U	0.042 U	0.041 U	0.054 U	0.052 U	0.018 U	0.017 U	0.0190 U
4-Methyl-2-pentanone	mg/kg	NS	0.046 U	0.044 U	0.042 U	0.041 U	0.054 U	0.052 U	0.018 U	0.017 U	0.0190 U
Acetone	mg/kg	NS	0.21	0.21	0.64	0.56	0.36	0.49	0.075	0.07	0.0700
Benzene	mg/kg	0.34	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Bromochloromethane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Bromodichloromethane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Bromoform	mg/kg	0.492	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Bromomethane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.0210 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Carbon Disulfide	mg/kg	NS	0.0023 JB	0.0017 JB	0.0079 JB	0.0068 J	0.0033 JB	0.0055 JB	0.00045 JB	0.00041 JB	0.0005 JB
Carbon Tetrachloride	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Chlorobenzene	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.00067 J	0.027 U	0.026 U	0.0047 JB	0.0087 U	0.0093 U
Chloroethane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Chloroform	mg/kg	0.121	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Chloromethane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
cis-1,2-Dichloroethene	mg/kg	0.654	0.0034 J	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
cis-1,3-Dichloropropene	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Cyclohexane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Dibromochloromethane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Dichlorodifluoromethane	mg/kg	NS	0.0066 JB	0.0079 JB	0.021 U	0.0011 J	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Ethylbenzene	mg/kg	1.4	0.0006 J	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Isopropylbenzene	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
m,p-Xylene	mg/kg	0.12	0.023 U	0.022 U	0.00043 J	0.00048 J	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Methyl Acetate	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Methyl tert-Butyl Ether	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Methylcyclohexane	mg/kg	NS	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Methylene Chloride	mg/kg	0.159	0.015 JB	0.013 JB	0.011 JB	0.0095 JB	0.012 JB	0.02 JB	0.0038 JB	0.004 JB	0.0031 JB
o-Xylene	mg/kg	0.12	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Styrene	mg/kg	0.254	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Tetrachloroethene	mg/kg	0.45	0.023 U	0.022 U	0.021 U	0.021 U	0.027 U	0.026 U	0.009 U	0.0087 U	0.0093 U
Toluene	mg/kg	2.5	0.0015 JB	0.0012 JB	0.002 JB	0.0018 JB	0.0014 JB	0.0018 JB	0.00054 JB	0.00069 JB	0.0093 U
Total Xylenes	mg/kg	0.12	0.023 U	0.022 U	0.00043 J	0.00048 J	0.027 U	0.026 U</			

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOOLLS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name: TestAmerica Job ID Number: Sample Depth (feet bgs): Date Collected:	Units	Ecologically Based Screening Level	SD-SD-34 (0-0.5) 20025732 0 - 0.5 12/03/2014 Result Q	SD-SD-34 (0-0.5) 20025732 0 - 0.5 12/03/2014 Second. Q	SD-SD-35 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-35 (0.05) 20025782 0 - 0.5 12/05/2014 Second. Q	SD-SD-36 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-36 (0.05) 20025782 0 - 0.5 12/05/2014 Second. Q	SD-SD-37 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-37 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-DUP1-120514 20025782 SD-37 12/05/2014 Result Q
<b>Semivolatile Organic Compounds</b>											
1,1-Biphenyl	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
1,2,4,5-Tetrachlorobenzene	mg/kg	1.252	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
2,2'-Oxybis(1-Chloropropane)	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
2,3,4,6-Tetrachlorophenol	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
2,4,5-Trichlorophenol	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
2,4,6 Trichlorophenol	mg/kg	0.208	1.2 U	1.2 U	1.100 U	1.100 U	1.20 U	NA	0.79 U	NA	0.69 U
2,4-Dichlorophenol	mg/kg	0.0817	1.2 U	1.2 U	1.100 U	1.100 U	1.20 U	NA	0.79 U	NA	0.69 U
2,4-Dimethylphenol	mg/kg	0.304	1.2 U	1.2 U	1.100 U	1.100 U	1.20 U	NA	0.79 U	NA	0.69 U
2,4-Dinitrophenol	mg/kg	0.00621	2.4 U	2.4 U	2.200 U	2.200 U	2.40 U	NA	1.5 U	NA	1.3 U
2,4-Dinitrotoluene	mg/kg	0.0144	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
2,6-Dinitrotoluene	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
2-Chloronaphthalene	mg/kg	0.417	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
2-Chlorophenol	mg/kg	0.0319	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
2-Methylphenol	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
2-Nitroaniline	mg/kg	NS	2.4 U	2.4 U	2.20 U	2.20 U	2.40 U	NA	1.5 U	NA	1.3 U
2-Nitrophenol	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
3,3'-Dichlorobenzidine	mg/kg	0.127	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
3-Nitroaniline	mg/kg	NS	2.4 U	2.4 U	2.20 U	2.20 U	2.40 U	NA	1.5 U	NA	1.3 U
4,6-Dinitro-2-methylphenol	mg/kg	NS	2.4 U	2.4 U	0.03 J	2.20 U	2.40 U	NA	1.5 U	NA	1.3 U
4-Bromophenylphenyl Ether	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
4-Chloro-3-methylphenol	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
4-Chloroaniline	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
4-Chlorophenylphenyl ether	mg/kg	NS	1.2 U	1.2 U	1.100 U	1.100 U	1.20 U	NA	0.79 U	NA	0.69 U
4-Methylphenol	mg/kg	NS	0.24 J	0.046 J	1.10 U	0.04 J	1.20 U	NA	0.79 U	NA	0.69 U
4-Nitroaniline	mg/kg	NS	2.4 U	2.4 U	2.20 U	2.20 U	2.40 U	NA	1.5 U	NA	1.3 U
4-Nitrophenol	mg/kg	0.0133	2.4 U	2.4 U	2.20 U	2.20 U	2.40 U	NA	1.5 U	NA	1.3 U
Acetophenone	mg/kg	NS	0.16 J	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.013 J
Atrazine	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Benzaldehyde	mg/kg	NS	0.43 J	0.13 J	0.20 J	0.27 J	0.23 J	NA	0.15 J	NA	0.16 J
Bis(2-Chloroethoxy) Methane	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Bis(2-Chloroethyl) Ether	mg/kg	3.52	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Bis(2-ethyl hexyl) phthalate	mg/kg	0.182	1 J B	0.42 J	0.32 J B	0.41 J	0.36 J	NA	0.24 J B	NA	0.2 J
Butylbenzylphthalate	mg/kg	1.97	0.39 J B	0.28 J	0.20 J B	0.29 J	0.25 J	NA	0.14 J B	NA	0.14 J
Caprolactam	mg/kg	NS	1.2 U	1.2 U	1.10 U	0.22 J	1.20 U	NA	0.79 U	NA	0.69 U
Carbazole	mg/kg	NS	0.12 J	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Dibenzofuran	mg/kg	NS	0.091 J	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Diethyl phthalate	mg/kg	0.295	1.2 U	1.2 U	0.220 J B	0.150 J	0.07 J	NA	0.79 U	NA	0.69 U
Dimethyl phthalate	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Di-n-butyl phthalate	mg/kg	1.114	1.2 U	0.082 J	1.10 U	1.10 U	1.20 U	NA	0.052 J B	NA	0.69 U
Di-n-octyl phthalate	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Hexachlorobenzene	mg/kg	0.02	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Hexachlorobutadiene	mg/kg	0.0265	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Hexachlorocyclopentadiene	mg/kg	0.901	1.2 U	1.2 U	1.100 U	1.100 U	1.20 U	NA	0.79 U	NA	0.69 U
Hexachloroethane	mg/kg	0.584	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Isophorone	mg/kg	0.432	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Nitrobenzene	mg/kg	0.145	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
N-Nitroso-di-n-propylamine	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
N-Nitrosodiphenylamine	mg/kg	NS	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Phenol	mg/kg	0.0491	1.2 U	1.2 U	1.10 U	1.10 U	1.20 U	NA	0.79 U	NA	0.69 U
Total Conc	mg/kg	NS	2.431	NA	0.97	NA	0.91	NA	0.582	NA	0.513
Total Estimated Conc. (TICs)	mg/kg	NS	259.4	167.53	210.70	277.00	229.52	NA	126.92	NA	128.74

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOTS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name: TestAmerica Job ID Number: Sample Depth (feet bgs): Date Collected:	Units	Ecologically Based Screening Level	SD-SD-34 (0-0.5) 20025732 0 - 0.5 12/03/2014 Result Q	SD-SD-34 (0-0.5) 20025732 0 - 0.5 12/03/2014 Second. Q	SD-SD-35 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-35 (0.05) 20025782 0 - 0.5 12/05/2014 Second. Q	SD-SD-36 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-36 (0.05) 20025782 0 - 0.5 12/05/2014 Second. Q	SD-SD-37 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-37 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-DUP1-120514 20025782 SD-37 12/05/2014 Result Q
<b>SVOCs SIM</b>											
2-Methylnaphthalene	mg/kg	0.07	0.0085 JB	NA	0.0067 JB	NA	0.0067 JB	NA	0.0035 JB	NA	0.0035 JB
Acenaphthene	mg/kg	0.016	0.013 J	NA	0.0059 J	NA	0.0055 J	NA	0.0024 J	NA	0.0024 J
Acenaphthylene	mg/kg	0.044	<b>0.028 J</b>	NA	0.0060 J	NA	0.0072 J	NA	0.0032 J	NA	0.0037 J
Anthracene	mg/kg	0.22	0.028 J	NA	0.0075 J	NA	0.0066 J	NA	0.0057 J	NA	0.0051 J
Benzo(a)anthracene	mg/kg	0.32	0.32	NA	0.0790	NA	0.0870	NA	0.05	NA	0.044
Benzo(a)pyrene	mg/kg	0.37	<b>0.46</b>	NA	0.1500	NA	0.1400	NA	0.073	NA	0.077
Benzo(b)fluoranthene	mg/kg	10.4	0.57	NA	0.2000	NA	0.1900	NA	0.1	NA	0.12
Benzo(g,h,i)perylene	mg/kg	0.17	<b>0.54</b>	NA	0.0730	NA	0.0780	NA	0.04	NA	0.039
Benzo(k)fluoranthene	mg/kg	0.24	<b>0.48</b>	NA	0.1200	NA	0.1200	NA	0.072	NA	0.071
Chrysene	mg/kg	0.34	<b>0.57</b>	NA	0.1200	NA	0.1400	NA	0.074	NA	0.071
Dibenz(a,h)anthracene	mg/kg	0.06	<b>0.17</b>	NA	0.0260	NA	0.0280	NA	0.014 J	NA	0.015
Fluoranthene	mg/kg	0.75	0.67	NA	0.1700	NA	0.1800	NA	0.11	NA	0.12
Fluorene	mg/kg	0.19	0.018 JB	NA	0.0095 JB	NA	0.0048 JB	NA	0.0021 JB	NA	0.0027 JB
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	<b>0.47</b>	NA	0.0750	NA	0.0810	NA	0.043	NA	0.043
Naphthalene	mg/kg	0.16	0.0094 JB	NA	0.0068 JB	NA	0.0061 JB	NA	0.0029 JB	NA	0.0032 JB
Pentachlorophenol	mg/kg	23	0.32 U	NA	0.0440 U	NA	0.0480 U	NA	0.031 U	NA	0.027 U
Phenanthrene	mg/kg	0.56	0.28 B	NA	0.0850 B	NA	0.0880 B	NA	0.046 B	NA	0.051 B
Pyrene	mg/kg	0.49	<b>0.85</b>	NA	0.1800	NA	0.1700	NA	0.095	NA	0.093
Total Conc	mg/kg	NS	5.4849	NA	1.3204	NA	1.3389	NA	0.7368	NA	0.7646
<b>Polychlorinated Biphenyls</b>											
Aroclor-1016	mg/kg	0.007	0.26 U	NA	0.21 U	NA	0.23 U	NA	0.15 U	NA	0.14 U
Aroclor-1221	mg/kg	NS	0.26 U	NA	0.21 U	NA	0.23 U	NA	0.15 U	NA	0.14 U
Aroclor-1232	mg/kg	NS	0.26 U	NA	0.21 U	NA	0.23 U	NA	0.15 U	NA	0.14 U
Aroclor-1242	mg/kg	NS	0.26 U	NA	0.024 JP	NA	0.23 U	NA	0.15 U	NA	0.14 U
Aroclor-1248	mg/kg	0.03	0.26 U	NA	0.21 U	NA	0.23 U	NA	0.15 U	NA	0.14 U
Aroclor-1254	mg/kg	0.06	<b>0.17 JP</b>	NA	<b>0.082 JP</b>	NA	0.043 JP	NA	0.025 JP	NA	0.029 JP
Aroclor-1260	mg/kg	0.005	<b>0.047 J</b>	NA	<b>0.058 J</b>	NA	<b>0.039 J</b>	NA	<b>0.026 J</b>	NA	<b>0.024 J</b>
Aroclor-1262	mg/kg	NS	0.26 U	NA	0.21 U	NA	0.23 U	NA	0.15 U	NA	0.14 U
Aroclor-1268	mg/kg	NS	0.26 U	NA	0.21 U	NA	0.23 U	NA	0.15 U	NA	0.14 U
Total PCBs	mg/kg	0.07	<b>0.217 JP</b>	NA	<b>0.16 JP</b>	NA	<b>0.082 JP</b>	NA	0.051 JP	NA	0.053 JP
<b>Pesticides</b>											
2,4'-DDD	mg/kg	0.008	0.0062 JP	NA	0.0065 JP	NA	0.0034 JP	NA	0.0019 JP	NA	0.00091 JP
2,4'-DDE	mg/kg	0.005	<b>0.0074 JP</b>	NA	0.002 JP	NA	0.0017 JP	NA	0.0006 JP	NA	0.00082 JP
2,4'-DDT	mg/kg	0.008	0.0009 JP	NA	0.001 J	NA	0.0007 J	NA	0.00045 JP	NA	0.00023 J
4,4'-DDD	mg/kg	0.008	<b>0.01 J</b>	NA	<b>0.022</b>	NA	0.0057 J	NA	0.0046 J	NA	0.0018 J
4,4'-DDE	mg/kg	0.005	<b>0.014 J</b>	NA	<b>0.013 J</b>	NA	<b>0.009 J</b>	NA	0.0039 JP	NA	0.002 J
4,4'-DDT	mg/kg	0.008	0.00085 JP	NA	0.001 JP	NA	0.002 JP	NA	0.00051 JP	NA	0.0002 JP
Aldrin	mg/kg	0.002	0.00024 JP	NA	0.0004 JP	NA	0.012 U	NA	0.00024 JP	NA	0.00065 J
alpha-BHC	mg/kg	0.006	0.00028 JP	NA	0.0003 JP	NA	0.0003 JP	NA	0.00027 JP	NA	0.00017 JP
alpha-Chlordane	mg/kg	0.007	<b>0.05</b>	NA	0.004 J	NA	0.005 JP	NA	0.0018 J	NA	0.0016 J
beta-BHC	mg/kg	0.005	0.0022 JP B	NA	0.001 JP B	NA	0.001 JP B	NA	0.00065 JP B	NA	0.0005 JP B
delta-BHC	mg/kg	0.003	<b>0.012 U</b>	NA	0.0002 JP	NA	<b>0.012 U</b>	NA	<b>0.0078 U</b>	NA	<b>0.0071 U</b>
Dieldrin	mg/kg	0.002	<b>0.0093 JP</b>	NA	0.001 JP	NA	<b>0.003 J</b>	NA	<b>0.015 U</b>	NA	<b>0.00072 J</b>
Endosulfan I	mg/kg	NS	0.003 JP	NA	0.001 J	NA	0.001 JP	NA	0.00044 JP	NA	0.00034 J
Endosulfan II	mg/kg	NS	0.0016 JP	NA	0.00043 JP	NA	0.023 U	NA	0.00021 JP	NA	0.014 U
Endosulfan sulfate	mg/kg	0.0346	0.00045 JP	NA	0.0005 JP	NA	0.0005 JP	NA	0.00034 JP	NA	0.00015 JP
Endrin	mg/kg	0.003	0.00038 JP	NA	<b>0.0210 U</b>	NA	<b>0.0230 U</b>	NA	<b>0.015 U</b>	NA	<b>0.014 U</b>
Endrin aldehyde	mg/kg	0.48	0.0016 JP	NA	0.0003 JP	NA	0.0028 J	NA	0.0016 J	NA	0.00064 JP
Endrin ketone	mg/kg	NS	0.0013 JP	NA	0.0003 JP	NA	0.0005 JP	NA	0.00031 JP	NA	0.014 U
gamma-BHC (Lindane)	mg/kg	0.003	0.00074 JP	NA	0.0009 JP	NA	0.0004 JP	NA	0.00022 JP	NA	0.00028 JP
gamma-Chlordane	mg/kg	0.007	<b>0.024 P</b>	NA	0.0024 J	NA	0.0026 JP	NA	0.0009 JP	NA	0.00047 J
Heptachlor	mg/kg	0.0006	<b>0.001 JP B</b>	NA	<b>0.0014 JP B</b>	NA	<b>0.0010 JP B</b>	NA	0.00058 JP B	NA	<b>0.00084 JP B</b>
Heptachlor epoxide	mg/kg	0.005	0.0036 J	NA	<b>0.0110 U</b>	NA	<b>0.0120 U</b>	NA	<b>0.0078 U</b>	NA	0.00066 JP
Methoxychlor	mg/kg	0.0136	0.0013 JP	NA	0.0005 JP	NA	0.0007 JP	NA	0.078 U	NA	0.00044 JP
Toxaphene	mg/kg	0.000077	1.2 U	NA	1.1 U	NA	1.2 U	NA	0.78 U	NA	0.71 U

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOOLLS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name: TestAmerica Job ID Number: Sample Depth (feet bgs): Date Collected:	Units	Ecologically Based Screening Level	SD-SD-34 (0-0.5) 20025732 0 - 0.5 12/03/2014 Result Q	SD-SD-34 (0-0.5) 20025732 0 - 0.5 12/03/2014 Second. Q	SD-SD-35 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-35 (0.05) 20025782 0 - 0.5 12/05/2014 Second. Q	SD-SD-36 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-36 (0.05) 20025782 0 - 0.5 12/05/2014 Second. Q	SD-SD-37 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-SD-37 (0.05) 20025782 0 - 0.5 12/05/2014 Result Q	SD-DUP1-120514 20025782 SD-37 12/05/2014 Result Q	
<b>Inorganics</b>												
Aluminum	mg/kg	25500	7200	NA	12700	NA	21600	NA	8040	NA	12900	
Antimony	mg/kg	NS	2.9 J	NA	2.7 J	NA	3.8 J	NA	0.66 J	NA	1.1 J	
Arsenic	mg/kg	6	<b>8.8</b>	NA	<b>8.2</b>	NA	<b>11.6</b>	NA	4.2	NA	<b>6.2</b>	
Barium	mg/kg	NS	101	NA	255	NA	357	NA	198	NA	221	
Beryllium	mg/kg	NS	0.37	NA	0.87	NA	1.3	NA	0.50	NA	0.84	
Cadmium	mg/kg	0.6	<b>4.6</b>	NA	<b>2.6</b>	NA	<b>3.4</b>	NA	<b>1.4</b>	NA	<b>1.6</b>	
Calcium	mg/kg	NS	8760	NA	10300	NA	17800	NA	8390	NA	9770	
Chromium	mg/kg	26	16.9	NA	25.8	NA	<b>39.8</b>	NA	14.4	NA	22.2	
Cobalt	mg/kg	50	3.5 J	NA	6.9 J	NA	10.4	NA	3.5 J	NA	5.3 J	
Copper	mg/kg	16	<b>91.9</b>	NA	<b>79.9</b>	NA	<b>118</b>	NA	<b>37.4</b>	NA	<b>45.2</b>	
Cyanide	mg/kg	0.0001	<b>0.72</b>	NA	<b>0.74</b>	NA	<b>0.47</b>	NA	<b>0.43</b>	NA	<b>0.55</b>	
Iron	mg/kg	NS	7930	NA	14900	NA	21000	NA	9510	NA	15000	
Lead	mg/kg	31	<b>242</b>	NA	<b>167</b>	NA	<b>294</b>	NA	<b>90.9</b>	NA	<b>74.0</b>	
Magnesium	mg/kg	NS	1340	NA	1480	NA	2430	NA	1140	NA	1660	
Manganese	mg/kg	630	47.3	NA	194	NA	382	NA	101	NA	148	
Mercury	mg/kg	0.2	<b>0.53</b>	NA	<b>0.78</b>	NA	<b>1.0</b>	NA	<b>0.42</b>	NA	<b>0.21 J</b>	
Nickel	mg/kg	16	<b>30.2</b>	NA	<b>22.0</b>	NA	<b>34.1</b>	NA	12.4	NA	<b>17.5</b>	
Potassium	mg/kg	NS	485	NA	634 J	NA	923 J	NA	446	NA	539 J	
Selenium	mg/kg	NS	1.2 J	NA	2.4 J	NA	3.7 J	NA	0.77 J	NA	1.7 J	
Silver	mg/kg	1	0.39 J	NA	0.56 J	NA	0.77 J	NA	0.75 U	NA	1.4 U	
Sodium	mg/kg	NS	575	NA	144 J	NA	218 J	NA	135 J	NA	173 J	
Thallium	mg/kg	NS	1.8 U	NA	2.1 U	NA	2.4 U	NA	1.9 U	NA	1.8 U	
Vanadium	mg/kg	NS	36.0	NA	47.3	NA	76.5	NA	25.8	NA	38.9	
Zinc	mg/kg	120	<b>807</b>	NA	<b>365</b>	NA	<b>541</b>	NA	<b>185</b>	NA	<b>226</b>	
<b>Miscellaneous</b>												
pH	su	NS	6.71 HF	NA	6.47 HF	NA	6.39 HF	NA	6.54 HF	NA	NA	
TOC	mg/kg	NS	387000 B	NA	291000 B	NA	348000 B	NA	208000 B	NA	NA	
Moisture	%	NS	71	NA	73	NA	76	NA	41	NA	42	
<b>Grainsize</b>												
Clay	%	NS	9.3	NA	6.0	NA	11	NA	6.1	NA	NA	
Coarse Sand	%	NS	36.0	NA	16	NA	21	NA	14	NA	NA	
Fine Sand	%	NS	8.2	NA	18	NA	14	NA	26	NA	NA	
Gravel	%	NS	0.0	NA	11	NA	5.9	NA	2.7	NA	NA	
Hydrometer Reading 1 - Percent Finer	% passing	NS	18.5	NA	32	NA	46	NA	39	NA	NA	
Hydrometer Reading 2 - Percent Finer	% passing	NS	15.4	NA	13	NA	27	NA	16	NA	NA	
Hydrometer Reading 3 - Percent Finer	% passing	NS	15.4	NA	13	NA	19	NA	13	NA	NA	
Hydrometer Reading 4 - Percent Finer	% passing	NS	12.4	NA	10	NA	12	NA	9.8	NA	NA	
Hydrometer Reading 5 - Percent Finer	% passing	NS	9.3	NA	6.0	NA	11	NA	6.1	NA	NA	
Hydrometer Reading 6 - Percent Finer	% passing	NS	8.5	NA	3.8	NA	11	NA	4.5	NA	NA	
Hydrometer Reading 7 - Percent Finer	% passing	NS	8.5	NA	1.6	NA	11	NA	4.5	NA	NA	
Medium Sand	%	NS	7.8	NA	11	NA	9.2	NA	18	NA	NA	
Sand	%	NS	52.0	NA	46	NA	45	NA	58	NA	NA	
Sieve Size #10 - Percent Finer	% passing	NS	64.0	NA	73	NA	73	NA	83	NA	NA	
Sieve Size #100 - Percent Finer	% passing	NS	49.8	NA	49	NA	53	NA	47	NA	NA	
Sieve Size #20 - Percent Finer	% passing	NS	57.7	NA	67	NA	69	NA	75	NA	NA	
Sieve Size #200 - Percent Finer	% passing	NS	48.0	NA	44	NA	50	NA	40	NA	NA	
Sieve Size #4 - Percent Finer	% passing	NS	100	NA	90	NA	94	NA	97	NA	NA	
Sieve Size #40 - Percent Finer	% passing	NS	56.2	NA	62	NA	64	NA	65	NA	NA	
Sieve Size #60 - Percent Finer	% passing	NS	55.2	NA	55	NA	60	NA	57	NA	NA	
Sieve Size #80 - Percent Finer	% passing	NS	53.4	NA	52	NA	57	NA	51	NA	NA	
Sieve Size 0.375 inch - Percent Finer	% passing	NS	100	NA	100	NA	100	NA	100	NA	NA	
Sieve Size 0.75 inch - Percent Finer	% passing	NS	100	NA	100	NA	100	NA	100	NA	NA	
Sieve Size 1 inch - Percent Finer	% passing	NS	100	NA	100	NA	100	NA	100	NA	NA	
Sieve Size 1.5 inch - Percent Finer	% passing	NS	100	NA	100	NA	100	NA	100	NA	NA	
Sieve Size 2 inch - Percent Finer	% passing	NS	100	NA	100	NA	100	NA	100	NA	NA	
Sieve Size 3 inch - Percent Finer	% passing	NS	100	NA	100	NA	100	NA	100	NA	NA	
Silt	%	NS	38.7	NA	38	NA	39	NA	33	NA	NA	

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOTS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name:	Units	SD-DUP1-120514 20025782	SD-SD-38 (0-0.5) 0 - 0.5	SD-SD-38 (0-0.5) 0 - 0.5	SD-SD-39 (0-0.5) 0 - 0.5	SD-SD-39 (0-0.5) 0 - 0.5	SD-SD-40 (0-0.5) 0 - 0.5	SD-SD-40 (0-0.5) 0 - 0.5	SD-SD-41 (0-0.5) 0 - 0.5	SD-SD-42 (0-0.5) 0 - 0.5	SD-SD-42 (0-0.5) 0 - 0.5
TestAmerica Job ID Number:		SD-37 12/05/2014 Second.	20025782 12/04/2014 Result	20025782 12/04/2014 Q	20025816 12/08/14 Second.	20025816 12/08/14 Result	20025732 12/03/2014 Second.	20025732 12/03/2014 Result	20025782 12/04/2014 Result	20025732 12/03/2014 Result	20025732 12/03/2014 Second.
Sample Depth (feet bgs):											
Date Collected:											
<b>Volatile Organic Compounds</b>											
1,1,1-Trichloroethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
1,1,2-Trichloroethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
1,1-Dichloroethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
1,1-Dichloroethene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
1,2,3-Trichlorobenzene	mg/kg	0.0093 U	0.027 U	0.025 U	0.00063 JB	NA	0.00017 JB	NA	0.11 JB	0.00073 JB	0.00062 JB
1,2,4-Trichlorobenzene	mg/kg	0.0093 U	0.027 U	0.025 U	0.002 JB	NA	0.00022 JB	NA	0.099 JB	0.00086 JB	0.00082 JB
1,2-Dibromo-3-chloropropane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
1,2-Dibromoethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
1,2-Dichlorobenzene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.013 J	0.013 J
1,2-Dichloroethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
1,3-Dichlorobenzene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	0.13 JB	0.015 U	0.016 U
1,4-Dichlorobenzene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	0.49 JB	0.027	0.022
1,4-Dioxane	mg/kg	0.19 U	0.54 U	0.5 U	0.84 U	NA	0.081 U	NA	22 U	0.31 U	0.31 U
2-Butanone	mg/kg	0.049	0.3	0.35	0.13	NA	0.0068 J	NA	0.69 J	0.27	0.22
2-Hexanone	mg/kg	0.019 U	0.054 U	0.05 U	0.084 U	NA	0.0081 U	NA	2.2 U	0.031 U	0.031 U
4-Methyl-2-pentanone	mg/kg	0.019 U	0.054 U	0.05 U	0.084 U	NA	0.0081 U	NA	2.2 U	0.031 U	0.031 U
Acetone	mg/kg	0.11	0.64	0.67	0.4	NA	0.023	NA	2.2 J	0.65	0.53
Benzene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	0.32 J	0.015 U	0.016 U
Bromochloromethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Bromodichloromethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Bromoform	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Bromomethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	0.51 JB	0.015 U	0.016 U
Carbon Disulfide	mg/kg	0.00057 J	0.0047 JB	0.0048 JB	0.0023 J	NA	0.00085 JB	NA	0.08 JB	0.018 B	0.013 JB
Carbon Tetrachloride	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Chlorobenzene	mg/kg	0.0093 U	0.027 U	0.025 U	0.00091 J	NA	0.004 U	NA	6.7 B	0.058 B	0.048 B
Chloroethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Chloroform	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Chloromethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
cis-1,2-Dichloroethene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
cis-1,3-Dichloropropene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Cyclohexane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Dibromochloromethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Dichlorodifluoromethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.00024 JB	NA	1.1 U	0.015 U	0.016 U
Ethylbenzene	mg/kg	0.0093 U	0.0015 J	0.0018 J	0.0013 J	NA	0.004 U	NA	0.23 JB	0.015 U	0.016 U
Isopropylbenzene	mg/kg	0.0093 U	0.027 U	0.00077 J	0.042 U	NA	0.004 U	NA	0.25 JB	0.015 U	0.016 U
m,p-Xylene	mg/kg	0.0093 U	0.0011 J	0.0013 J	0.0022 J	NA	0.00005 J	NA	0.49 JB	0.0039 J	0.0029 J
Methyl Acetate	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	2.5	0.015 U	0.016 U
Methyl tert-Butyl Ether	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Methylcyclohexane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Methylene Chloride	mg/kg	0.0038 JB	0.016 JB	0.014 JB	0.0089 JB	NA	0.0022 JB	NA	0.17 JB	0.0053 JB	0.0056 JB
o-Xylene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.0051 J	0.0041 J
Styrene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Tetrachloroethene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Toluene	mg/kg	0.0006 JB	0.0096 JB	0.0079 JB	0.013 JB	NA	0.00028 JB	NA	0.026 JB	0.002 JB	0.0022 JB
Total Xylenes	mg/kg	0.0093 U	0.0011 J	0.0013 J	0.0022 J	NA	0.00005 J	NA	0.049 JB	0.009 J	0.007 J
trans-1,2-Dichloroethene	mg/kg	0.0093 U	0.027 U	0.00055 J	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
trans-1,3-Dichloropropene	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Trichloroethene	mg/kg	0.0093 U	0.027 U	0.025 U	0.0039 J	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Trichlorofluoromethane	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U	0.015 U	0.016 U
Vinyl Chloride	mg/kg	0.0093 U	0.027 U	0.025 U	0.042 U	NA	0.004 U	NA	1.1 U</		

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOOLLS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name:	Units	SD-DUP1-120514 20025782	SD-SD-38 (0-0.5) 0 - 0.5	SD-SD-38 (0-0.5) 0 - 0.5	SD-SD-39 (0-0.5) 0 - 0.5	SD-SD-39 (0-0.5) 0 - 0.5	SD-SD-40 (0-0.5) 0 - 0.5	SD-SD-40 (0-0.5) 0 - 0.5	SD-SD-41 (0-0.5) 0 - 0.5	SD-SD-42 (0-0.5) 0 - 0.5	SD-SD-42 (0-0.5) 0 - 0.5
TestAmerica Job ID Number:											
Sample Depth (feet bgs):		SD-37	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:		12/05/2014	12/04/2014	12/04/2014	12/08/14	12/08/14	12/03/2014	12/03/2014	12/04/2014	12/03/2014	12/03/2014
Second.	Q	Result	Q	Second.	Q	Result	Q	Second.	Q	Result	Q
<b>Semivolatile Organic Compounds</b>											
1,1-Biphenyl	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.022 J	2.60 U	0.38 U	NA
1,2,4,5-Tetrachlorobenzene	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2,2'-Oxybis(1-Chloropropane)	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2,3,4,6-Tetrachlorophenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2,4,5-Trichlorophenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2,4,6 Trichlorophenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2,4-Dichlorophenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2,4-Dimethylphenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2,4-Dinitrophenol	mg/kg	NA	1.9 U	1.9 U	3.6 U	NA	0.7 U	0.7 U	5.10 U	0.75 U	NA
2,4-Dinitrotoluene	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2,6-Dinitrotoluene	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2-Chloronaphthalene	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2-Chlorophenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2-Methylphenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
2-Nitroaniline	mg/kg	NA	1.9 U	1.9 U	3.6 U	NA	0.7 U	0.7 U	5.10 U	0.75 U	NA
2-Nitrophenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
3,3'-Dichlorobenzidine	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
3-Nitroaniline	mg/kg	NA	1.9 U	1.9 U	3.6 U	NA	0.7 U	0.7 U	5.10 U	0.75 U	NA
4,6-Dinitro-2-methylphenol	mg/kg	NA	1.9 U	1.9 U	3.6 U	NA	0.7 U	0.7 U	5.10 U	0.75 U	NA
4-Bromophenylphenyl Ether	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
4-Chloro-3-methylphenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
4-Chloroaniline	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
4-Chlorophenylphenyl ether	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
4-Methylphenol	mg/kg	NA	0.99 U	0.99 U	1.3 J	NA	0.36 U	0.07 J	2.60 U	0.02 J	NA
4-Nitroaniline	mg/kg	NA	1.9 U	1.9 U	3.6 U	NA	0.7 U	0.7 U	5.10 U	0.75 U	NA
4-Nitrophenol	mg/kg	NA	1.9 U	1.9 U	3.6 U	NA	0.7 U	0.7 U	5.10 U	0.75 U	NA
Acetophenone	mg/kg	NA	0.99 U	0.99 U	0.069 J	NA	0.009 J	0.051 J	2.60 U	0.011 J	NA
Atrazine	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Benzaldehyde	mg/kg	NA	0.39 J	0.4 J	0.3 JB	NA	0.088 J	0.13 J	1.10 J	0.041 J	NA
Bis(2-Chloroethoxy) Methane	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Bis(2-Chloroethyl) Ether	mg/kg	NA	0.012 J	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Bis(2-ethyl hexyl) phthalate	mg/kg	NA	<b>0.37 J B</b>	<b>0.99</b>	<b>0.71 J B</b>	NA	0.13 J B	<b>0.32 J</b>	<b>0.84 J B</b>	0.14 J B	NA
Butylbenzylphthalate	mg/kg	NA	0.14 J B	0.16 J	1.8 U	NA	0.066 J B	0.13 J	0.43 J B	0.086 J B	NA
Caprolactam	mg/kg	NA	0.99 U	0.18 J	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Carbazole	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.036 J	2.60 U	0.011 J	NA
Dibenzofuran	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.027 J	2.60 U	0.38 U	NA
Diethyl phthalate	mg/kg	NA	0.99 U	0.091 J	1.8 U	NA	0.36 U	0.36 U	<b>0.40 J B</b>	0.38 U	NA
Dimethyl phthalate	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Di-n-butyl phthalate	mg/kg	NA	0.064 J B	0.99 U	0.1 J B	NA	0.024 J B	0.36 U	2.60 U	0.38 U	NA
Di-n-octyl phthalate	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.03 J	0.36 U	2.60 U	0.38 U	NA
Hexachlorobenzene	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Hexachlorobutadiene	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Hexachlorocyclopentadiene	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Hexachloroethane	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Isophorone	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Nitrobenzene	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
N-Nitroso-di-n-propylamine	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
N-Nitrosodiphenylamine	mg/kg	NA	0.99 U	0.99 U	3.4	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Phenol	mg/kg	NA	0.99 U	0.99 U	1.8 U	NA	0.36 U	0.36 U	2.60 U	0.38 U	NA
Total Conc	mg/kg	NA	0.976	NA	5.879	NA	0.347	NA	2.77	0.309	NA
Total Estimated Conc. (TICs)	mg/kg	NA	360.71	182.33	644.2	NA	66.85	321.5	1115.70	70.86	NA

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOTS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name: TestAmerica Job ID Number:	Units	SD-DUP1-120514 20025782	SD-SD-38 (0-0.5) 0 - 0.5	SD-SD-38 (0-0.5) 20025782	SD-SD-39 (0-0.5) 20025816	SD-SD-39 (0-0.5) 20025816	SD-SD-40 (0-0.5) 20025732	SD-SD-40 (0-0.5) 20025732	SD-SD-41 (0-0.5) 20025782	SD-SD-42 (0-0.5) 20025732	SD-SD-42 (0-0.5) 20025732
Sample Depth (feet bgs):		SD-37	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:		12/05/2014 Second.	12/04/2014 Result	12/04/2014 Second.	12/08/14 Result	12/08/14 Second.	12/03/2014 Result	12/03/2014 Second.	12/04/2014 Result	12/03/2014 Result	12/03/2014 Second.
		Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
<b>SVOCs SIM</b>											
2-Methylnaphthalene	mg/kg	NA	0.0069 JB	NA	<b>0.31</b>	NA	<b>0.079 JB</b>	NA	0.0170 JB	0.0036 JB	NA
Acenaphthene	mg/kg	NA	0.0037 J	NA	<b>0.041 J</b>	NA	<b>0.017 J</b>	NA	<b>0.0089 J</b>	0.013	NA
Acenaphthylene	mg/kg	NA	0.0019 J	NA	0.015 J	NA	<b>0.082 J</b>	NA	0.0059 J	0.00062 J	NA
Anthracene	mg/kg	NA	0.0057 J	NA	0.13 J	NA	0.077 J	NA	0.0100 J	0.0054 J	NA
Benzo(a)anthracene	mg/kg	NA	0.096	NA	<b>0.44</b>	NA	<b>0.52</b>	NA	0.0810	0.012	NA
Benzo(a)pyrene	mg/kg	NA	0.13	NA	<b>0.45</b>	NA	<b>0.82</b>	NA	0.1000	0.016	NA
Benzo(b)fluoranthene	mg/kg	NA	0.13	NA	0.86	NA	0.91	NA	0.1400	0.017	NA
Benzo(g,h,i)perylene	mg/kg	NA	0.053	NA	<b>0.52</b>	NA	<b>1.3</b>	NA	0.0510	0.01	NA
Benzo(k)fluoranthene	mg/kg	NA	0.11	NA	<b>0.41</b>	NA	<b>0.76</b>	NA	0.0960	0.01	NA
Chrysene	mg/kg	NA	0.1	NA	<b>1.1</b>	NA	<b>0.63</b>	NA	0.1100	0.014	NA
Dibenz(a,h)anthracene	mg/kg	NA	0.021	NA	<b>0.12 J</b>	NA	<b>0.37</b>	NA	0.0210 J	0.0024 J	NA
Fluoranthene	mg/kg	NA	0.12	NA	<b>0.8</b>	NA	0.62	NA	0.1500	0.052	NA
Fluorene	mg/kg	NA	0.0039 JB	NA	0.14 J	NA	0.03 JB	NA	0.0077 JB	0.017 B	NA
Indeno(1,2,3-cd)pyrene	mg/kg	NA	0.055	NA	<b>0.29</b>	NA	<b>1.2</b>	NA	0.0450 J	0.0075	NA
Naphthalene	mg/kg	NA	0.01 JB	NA	<b>0.27 B</b>	NA	0.041 JB	NA	0.0220 JB	0.003 JB	NA
Pentachlorophenol	mg/kg	NA	0.0025 J	NA	0.29 U	NA	0.28 U	NA	0.0650 J	0.015 U	NA
Phenanthrene	mg/kg	NA	0.03 B	NA	<b>1.1 B</b>	NA	0.29 B	NA	0.0820 B	0.033 B	NA
Pyrene	mg/kg	NA	0.13	NA	<b>0.8</b>	NA	<b>0.76</b>	NA	0.1300	0.028	NA
Total Conc	mg/kg	NA	1.0096	NA	7.796	NA	8.506	NA	1.1425	0.24452	NA
<b>Polychlorinated Biphenyls</b>											
Aroclor-1016	mg/kg	NA	0.19 U	NA	0.35 U	NA	0.076 U	NA	0.51 U	0.12 U	NA
Aroclor-1221	mg/kg	NA	0.19 U	NA	0.35 U	NA	0.076 U	NA	0.51 U	0.12 U	NA
Aroclor-1232	mg/kg	NA	0.19 U	NA	0.35 U	NA	0.076 U	NA	0.51 U	0.12 U	NA
Aroclor-1242	mg/kg	NA	0.37 P	NA	0.35 U	NA	0.073 J	NA	0.42 J	0.17	NA
Aroclor-1248	mg/kg	NA	0.19 U	NA	0.35 U	NA	0.076 U	NA	0.51 U	0.12 U	NA
Aroclor-1254	mg/kg	NA	<b>0.69 P</b>	NA	<b>0.066 JP</b>	NA	<b>0.42 P</b>	NA	<b>0.21 JP</b>	<b>0.12</b>	NA
Aroclor-1260	mg/kg	NA	<b>0.24</b>	NA	<b>0.026 J</b>	NA	<b>0.073 J</b>	NA	<b>0.08 JP</b>	<b>0.042 J</b>	NA
Aroclor-1262	mg/kg	NA	0.19 U	NA	0.35 U	NA	0.076 U	NA	0.51 U	0.12 U	NA
Aroclor-1268	mg/kg	NA	0.19 U	NA	0.35 U	NA	0.076 U	NA	0.51 U	0.12 U	NA
Total PCBs	mg/kg	NA	<b>1.3 P</b>	NA	<b>0.092 JP</b>	NA	<b>0.566 P</b>	NA	<b>0.71 JP</b>	<b>0.332 J</b>	NA
<b>Pesticides</b>											
2,4'-DDD	mg/kg	NA	0.078	NA	<b>0.18</b>	<b>0.20 D</b>	<b>0.015 P</b>	NA	0.0067 J	0.00043 J	NA
2,4'-DDE	mg/kg	NA	<b>0.017 JP</b>	NA	<b>0.0100 JP</b>	<b>0.0120 JP D</b>	<b>0.01 P</b>	NA	0.0047 JP	0.0027 JP	NA
2,4'-DDT	mg/kg	NA	0.0016 J	NA	0.0012 JP	0.0017 JP D	0.0021 J	NA	0.00074 JP	0.00013 JP	NA
4,4'-DDD	mg/kg	NA	<b>0.15</b>	NA	<b>0.66 E</b>	<b>0.73 D</b>	<b>0.052</b>	NA	<b>0.019 J</b>	0.0011 JP	NA
4,4'-DDE	mg/kg	NA	<b>0.029 P</b>	NA	<b>0.03 J</b>	<b>0.033 JD</b>	<b>0.0051 JP</b>	NA	<b>0.023 J</b>	0.0033 JP	NA
4,4'-DDT	mg/kg	NA	0.006 JP	NA	0.0047 JP	0.0057 JP D	0.0073 P	NA	0.0033 JP	0.0005 JP	NA
Aldrin	mg/kg	NA	0.00034 JP	NA	0.00078 J	0.0011 JP D	0.00035 JP	NA	<b>0.026 U</b>	<b>0.0038 U</b>	NA
alpha-BHC	mg/kg	NA	0.0014 J	NA	0.00051 J	<b>0.036 U</b>	0.00026 JP	NA	0.001 J	0.00012 J	NA
alpha-Chlordane	mg/kg	NA	<b>0.012 P</b>	NA	<b>0.0073 J</b>	<b>0.0098 JD</b>	<b>0.011 P</b>	NA	0.007 J	0.00042 J	NA
beta-BHC	mg/kg	NA	<b>0.023 PB</b>	NA	0.0014 JP B	0.0027 JP BD	0.00081 JP B	NA	0.0022 JP B	0.00055 JP B	NA
delta-BHC	mg/kg	NA	0.00028 JP	NA	0.00046 JP	0.001 JP D	0.000071 JP	NA	<b>0.026 U</b>	0.000085 JP	NA
Dieldrin	mg/kg	NA	<b>0.017 JP</b>	NA	0.00075 JP	0.001 JP D	0.00093 JP	NA	0.0006 JP	0.00027 JP	NA
Endosulfan I	mg/kg	NA	0.0012 JP	NA	0.00089 JP	0.0017 JD	0.00028 JP	NA	0.00064 JP	0.0038 U	NA
Endosulfan II	mg/kg	NA	0.0008 JP	NA	0.0006 JP	0.069 U	0.0067 U	NA	0.00057 JP	0.00023 J	NA
Endosulfan sulfate	mg/kg	NA	0.0019 JP	NA	0.0340 U	<b>0.069 U</b>	0.0014 JP	NA	<b>0.05 U</b>	0.00031 JP	NA
Endrin	mg/kg	NA	<b>0.019 U</b>	NA	0.0009 JP	0.0008 JP D	0.00039 JP	NA	<b>0.05 U</b>	<b>0.0074 U</b>	NA
Endrin aldehyde	mg/kg	NA	0.015 J	NA	0.0032 JP	0.0042 JP D	0.0068 P	NA	0.05 U	0.0013 JP	NA
Endrin ketone	mg/kg	NA	0.00052 JP	NA	0.0003 JP	0.0011 JP D	0.0017 JP	NA	0.05 U	0.0074 U	NA
gamma-BHC (Lindane)	mg/kg	NA	<b>0.0034 JP</b>	NA	<b>0.0180 U</b>	<b>0.0360 U</b>	<b>0.00011 JP</b>	NA	<b>0.0045 J</b>	0.00018 JP	NA
gamma-Chlordane	mg/kg	NA	<b>0.012</b>	NA	0.0067 JP	<b>0.0077 JP D</b>	<b>0.013</b>	NA	0.0044 J	0.00085 JP	NA
Heptachlor	mg/kg	NA	<b>0.0011 JP B</b>	NA	<b>0.0011 JP B</b>	<b>0.0015 JP BD</b>	0.000066 JP B	NA	<b>0.00061 JP B</b>	0.00013 JP B	NA
Heptachlor epoxide	mg/kg	NA	<b>0.0099 U</b>	NA	<b>0.018 U</b>	<b>0.036 U</b>	0.00014 JP	NA	<b>0.026 U</b>	0.00012 JP	NA
Methoxychlor	mg/kg	NA	0.013 J	NA	<b>0.18 U</b>	<b>0.36 U</b>	0.0025 J	NA	0.0023 JP	0.00033 JP	NA
Toxaphene	mg/kg	NA	0.99 U	NA	1.8						

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOOLLS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name:		SD-DUP1-120514	SD-SD-38 (0-0.5)	SD-SD-38 (0-0.5)	SD-SD-39 (0-0.5)	SD-SD-39 (0-0.5)	SD-SD-40 (0-0.5)	SD-SD-40 (0-0.5)	SD-SD-41 (0-0.5)	SD-SD-42 (0-0.5)	SD-SD-42 (0-0.5)
TestAmerica Job ID Number:		20025782	20025782	20025782	20025816	20025816	20025732	20025732	20025782	20025732	20025732
Sample Depth (feet bgs):	Units	SD-37	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5
Date Collected:		12/05/2014	12/04/2014	12/04/2014	12/08/14	12/08/14	12/03/2014	12/03/2014	12/04/2014	12/03/2014	12/03/2014
<b>Inorganics</b>											
Aluminum	mg/kg	NA	4620	NA	1220 E	NA	10300	NA	3210	252	NA
Antimony	mg/kg	NA	9.5	NA	24.4 N	NA	1.1 J	NA	8.2	13.6 U	NA
Arsenic	mg/kg	NA	9.7	NA	4.4	NA	3.2	NA	14.2	4.1	NA
Barium	mg/kg	NA	284	NA	68.3 E	NA	51.1	NA	266	380	NA
Beryllium	mg/kg	NA	0.11 J	NA	0.083 J E	NA	0.52 J	NA	0.19 J	0.018 J	NA
Cadmium	mg/kg	NA	20.2	NA	5.5	NA	0.60 J	NA	9.8	3.7	NA
Calcium	mg/kg	NA	7630	NA	12900 E	NA	2740	NA	15700	13100	NA
Chromium	mg/kg	NA	103	NA	6.7 E	NA	18.8	NA	18.0	2.0	NA
Cobalt	mg/kg	NA	4.7	NA	6.7 E	NA	7.8 J	NA	10	5.2	NA
Copper	mg/kg	NA	618	NA	145 E	NA	39.8	NA	174	74.3	NA
Cyanide	mg/kg	NA	4.5	NA	1.6	NA	0.26 J	NA	1.1	3.7	NA
Iron	mg/kg	NA	88800	NA	11500 E	NA	18900	NA	32100	230000	NA
Lead	mg/kg	NA	845	NA	1310	NA	360	NA	335	42.4	NA
Magnesium	mg/kg	NA	464	NA	732 E	NA	2570	NA	1260	182 J	NA
Manganese	mg/kg	NA	125	NA	178 E	NA	90.0	NA	239	455	NA
Mercury	mg/kg	NA	4.4	NA	0.46	NA	0.28 J	NA	0.61	0.77	NA
Nickel	mg/kg	NA	70.2	NA	34.3 E	NA	14.6	NA	50.3	12.3	NA
Potassium	mg/kg	NA	116 J	NA	634 E	NA	897	NA	719	439 U	NA
Selenium	mg/kg	NA	3.1 U	NA	1.6 J	NA	5.7 U	NA	2.2 J	7.9 U	NA
Silver	mg/kg	NA	5.4	NA	0.34 J	NA	1.6 U	NA	0.86	22.7 U	NA
Sodium	mg/kg	NA	65.1 J	NA	213 J	NA	135 J	NA	328 J	77.5 J	NA
Thallium	mg/kg	NA	0.73 J	NA	1.9 U	NA	4.1 U	NA	1.9 U	1.7 J	NA
Vanadium	mg/kg	NA	11.1	NA	11.7 E	NA	32.9	NA	21.0	6.7	NA
Zinc	mg/kg	NA	2270	NA	1950 E	NA	172	NA	1550	247	NA
<b>Miscellaneous</b>											
pH	su	NA	6.60 HF	NA	6.63 HF	NA	6.42 HF	NA	6.51 HF	6.37 HF	NA
TOC	mg/kg	NA	372000 B	NA	494000 B	NA	37700 B	NA	345000 B	89000 E B	NA
Moisture	%	NA	76	NA	91	NA	12	NA	56	60	NA
<b>Grainsize</b>											
Clay	%	NA	7.1	NA	1.5	NA	9.1	NA	14	35.4	NA
Coarse Sand	%	NA	27	NA	18.3	NA	3.6	NA	41	7.2	NA
Fine Sand	%	NA	17	NA	3.5	NA	52.5	NA	15	9.6	NA
Gravel	%	NA	11	NA	36.6	NA	0.7	NA	8.2	4.2	NA
Hydrometer Reading 1 - Percent Finer	% passing	NA	31	NA	7.6	NA	23.7	NA	31	65.0	NA
Hydrometer Reading 2 - Percent Finer	% passing	NA	23	NA	5.6	NA	14.6	NA	26	52.0	NA
Hydrometer Reading 3 - Percent Finer	% passing	NA	18	NA	3.5	NA	12.7	NA	21	47.1	NA
Hydrometer Reading 4 - Percent Finer	% passing	NA	13	NA	1.5	NA	10.9	NA	15	40.6	NA
Hydrometer Reading 5 - Percent Finer	% passing	NA	7.1	NA	1.5	NA	9.1	NA	14	35.4	NA
Hydrometer Reading 6 - Percent Finer	% passing	NA	7.1	NA	1.5	NA	6.2	NA	14	27.2	NA
Hydrometer Reading 7 - Percent Finer	% passing	NA	7.1	NA	1.5	NA	3.4	NA	9.0	22.4	NA
Medium Sand	%	NA	7.6	NA	2.4	NA	11.6	NA	4.8	1.0	NA
Sand	%	NA	51	NA	24.2	NA	67.7	NA	61	17.8	NA
Sieve Size #10 - Percent Finer	% passing	NA	63	NA	45.1	NA	95.7	NA	51	88.6	NA
Sieve Size #100 - Percent Finer	% passing	NA	43	NA	40.2	NA	50.5	NA	35	82.9	NA
Sieve Size #20 - Percent Finer	% passing	NA	60	NA	44.0	NA	91.8	NA	49	88.3	NA
Sieve Size #200 - Percent Finer	% passing	NA	38	NA	39.2	NA	31.6	NA	31	78.0	NA
Sieve Size #4 - Percent Finer	% passing	NA	89	NA	63.4	NA	99.3	NA	92	95.8	NA
Sieve Size #40 - Percent Finer	% passing	NA	55	NA	42.7	NA	84.1	NA	46	87.6	NA
Sieve Size #60 - Percent Finer	% passing	NA	51	NA	41.5	NA	71.3	NA	43	86.9	NA
Sieve Size #80 - Percent Finer	% passing	NA	47	NA	40.7	NA	59.7	NA	40	85.4	NA
Sieve Size 0.375 inch - Percent Finer	% passing	NA	100	NA	65.8	NA	100	NA	100	100	NA
Sieve Size 0.75 inch - Percent Finer	% passing	NA	100	NA	86.6	NA	100	NA	100	100	NA
Sieve Size 1 inch - Percent Finer	% passing	NA	100	NA	100	NA	100	NA	100	100	NA
Sieve Size 1.5 inch - Percent Finer	% passing	NA	100	NA	100	NA	100	NA	100	100	NA
Sieve Size 2 inch - Percent Finer	% passing	NA	100	NA	100	NA	100	NA	100	100	NA
Sieve Size 3 inch - Percent Finer	% passing	NA	100	NA	100	NA	100	NA	100	100	NA
Silt	%	NA	31	NA	37.7	NA	22.5	NA	17	42.6	NA

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOTS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name: TestAmerica Job ID Number:	SD-SD-43 (0-0.5) 20025816	SD-SD-43 (0-0.5) 0 - 0.5	SD-SD-44 (0-0.5) 20025782	SD-SD-44 (0-0.5) 0 - 0.5	SS-162 (0.5-0.1) 20026255	SS-162 (0.5-0.1) 0.5 - 1	SS-163 (0.5-0.1) 20026255	SS-163 (0.5-0.1) 0.5 - 1	SS-164 (0.5-1.0) 20026255	SS-164 (0.5-0.1) 0.5 - 1
Sample Depth (feet bgs): Date Collected:	Units Result	12/08/14	12/08/14	12/04/2014	Result	01/09/2015	Result	01/09/2015	Result	01/09/2015
Volatile Organic Compounds										
1,1,1-Trichloroethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.037 U	0.00 U	NA	0.0230 U
1,1,2,2-Tetrachloroethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,1,2-Trichloroethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,1-Dichloroethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,1-Dichloroethene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,2,3-Trichlorobenzene	mg/kg	0.015 U	NA	0.0026 JB	0.075 U	0.039 U	0.037 U	0.00 U	NA	0.0230 U
1,2,4-Trichlorobenzene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,2-Dibromo-3-chloropropane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,2-Dibromoethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,2-Dichlorobenzene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,2-Dichloroethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,2-Dichloropropane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,3-Dichlorobenzene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,4-Dichlorobenzene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
1,4-Dioxane	mg/kg	0.31 U	NA	1.5 U	1.5 U	0.79 U	0.7400 U	0.086 U	NA	0.4700 U
2-Butanone	mg/kg	0.12	NA	0.79	0.96	0.35	0.4600	0.007 J	NA	0.2200
2-Hexanone	mg/kg	0.031 U	NA	0.15 U	0.15 U	0.079 U	0.0740 U	0.009 U	NA	0.0470 U
4-Methyl-2-pentanone	mg/kg	0.031 U	NA	0.15 U	0.15 U	0.079 U	0.0740 U	0.009 U	NA	0.0470 U
Acetone	mg/kg	0.33	NA	1.9	2.30	0.66 B	1.1000 B	0.021 B	NA	0.5100 B
Benzene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Bromochloromethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Bromodichloromethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Bromoform	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Bromomethane	mg/kg	0.015 U	NA	0.074 U	0.08 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Carbon Disulfide	mg/kg	0.0034 J	NA	0.014 JB	0.013 JB	0.006 J	0.0059 J	0.0004 J	NA	0.0058 J
Carbon Tetrachloride	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Chlorobenzene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Chloroethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Chloroform	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.037 U	0.0043 U	NA	0.0230 U
Chloromethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
cis-1,2-Dichloroethene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.037 U	0.00 U	NA	0.0230 U
cis-1,3-Dichloropropene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Cyclohexane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Dibromochloromethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Dichlorodifluoromethane	mg/kg	0.00095 J	NA	0.074 U	0.075 U	0.039 U	0.037 U	0.00 J	NA	0.0230 U
Ethylbenzene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Isopropylbenzene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
m,p-Xylene	mg/kg	0.015 U	NA	0.016 J	0.01 J	0.0033 JB	0.0024 JB	0.004 U	NA	0.0230 U
Methyl Acetate	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Methyl tert-Butyl Ether	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Methylcyclohexane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Methylene Chloride	mg/kg	0.0064 JB	NA	0.066 JB	0.032 JB	0.039 U	0.0370 U	0.002 J	NA	0.0110 J
o-Xylene	mg/kg	0.015 U	NA	0.0047 J	0.0036 J	0.0023 J	0.0022 J	0.004 U	NA	0.0230 U
Styrene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Tetrachloroethene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Toluene	mg/kg	0.0015 JB	NA	0.011 JB	0.011 JB	0.0029 JB	0.0024 JB	0.000 J B	NA	0.0026 J B
Total Xylenes	mg/kg	0.015 U	NA	0.0207 J	0.0136 J	0.0056 J B	0.0046 J B	0.004 U	NA	0.0230 U
trans-1,2-Dichloroethene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
trans-1,3-Dichloropropene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.001 J	NA	0.0230 U
Trichloroethene	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Trichlorofluoromethane	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.0370 U	0.004 U	NA	0.0230 U
Vinyl Chloride	mg/kg	0.015 U	NA	0.074 U	0.075 U	0.039 U	0.037 U	0.0043 U	NA	0.0230 U
Total Conc	mg/kg	0.46225	NA	2.8043	NA	1.0245	NA	0.031518	NA	0.7494
Total Estimated Conc. (TICs)	mg/kg	0.179	NA	2.003	0.0*T	0.86	0.0*T	0.0505	NA	0.8600

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOllS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name: TestAmerica Job ID Number:	SD-SD-43 (0-0.5) 20025816	SD-SD-43 (0-0.5) 20025816	SD-SD-44 (0-0.5) 20025782	SD-SD-44 (0-0.5) 20025782	SS-162 (0.5-0.1) 20026255	SS-162 (0.5-0.1) 20026255	SS-163 (0.5-0.1) 20026255	SS-163 (0.5-0.1) 20026255	SS-164 (0.5-1.0) 20026255	SS-164 (0.5-0.1) 20026255
Sample Depth (feet bgs): Date Collected:	Units 0 - 0.5 12/08/14 Result Q	Units 0 - 0.5 12/08/14 Second. Q	Units 0 - 0.5 12/04/2014 Result Q	Units 0 - 0.5 12/04/2014 Second. Q	Units 0.5 - 1 01/09/2015 Result Q	Units 0.5 - 1 01/09/2015 Second. Q	Units 0.5 - 1 01/09/2015 Result Q	Units 0.5 - 1 01/09/2015 Second. Q	Units 0.5 - 1 01/09/2015 Result Q	Units 0.5 - 1 01/09/2015 Second. Q
<b>Semivolatile Organic Compounds</b>										
1,1-Biphenyl	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
1,2,4,5-Tetrachlorobenzene	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2,2'-Oxybis(1-Chloropropane)	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2,3,4,6-Tetrachlorophenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2,4,5-Trichlorophenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2,4,6 Trichlorophenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2,4-Dichlorophenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2,4-Dimethylphenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2,4-Dinitrophenol	mg/kg 1.8 U	NA	3.6 U	NA	3 U	3 U	4.7 U	NA	3.3 U	3.3 U
2,4-Dinitrotoluene	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2,6-Dinitrotoluene	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2-Chloronaphthalene	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2-Chlorophenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2-Methylphenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
2-Nitroaniline	mg/kg 1.8 U	NA	3.6 U	NA	3 U	3 U	4.7 U	NA	3.3 U	3.3 U
2-Nitrophenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
3,3'-Dichlorobenzidine	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
3-Nitroaniline	mg/kg 1.8 U	NA	3.6 U	NA	3 U	3 U	4.7 U	NA	3.3 U	3.3 U
4,6-Dinitro-2-methylphenol	mg/kg 1.8 U	NA	3.6 U	NA	3 U	3 U	4.7 U	NA	3.3 U	3.3 U
4-Bromophenylphenyl Ether	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
4-Chloro-3-methylphenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
4-Chloroaniline	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
4-Chlorophenylphenyl ether	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
4-Methylphenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
4-Nitroaniline	mg/kg 1.8 U	NA	3.6 U	NA	3 U	3 U	4.7 U	NA	3.3 U	3.3 U
4-Nitrophenol	mg/kg 1.8 U	NA	3.6 U	NA	3 U	3 U	4.7 U	NA	3.3 U	3.3 U
Acetophenone	mg/kg 0.014 J	NA	0.09 J	NA	0.099 JB	0.076 JB	0.17 JB	NA	0.19 JB	0.18 JB
Atrazine	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Benzaldehyde	mg/kg 0.19 JB	NA	0.53 J	NA	2 B	2.1 B	5 B	NA	9.4 B	8.8 B
Bis(2-Chloroethoxy) Methane	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Bis(2-Chloroethyl) Ether	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Bis(2-ethyl hexyl) phthalate	mg/kg 0.13 JB	NA	1.20 JB	NA	0.61 JB	0.52 JB	0.66 JB	NA	0.57 JB	0.54 JB
Butylbenzylphthalate	mg/kg 0.91 U	NA	0.49 JB	NA	0.22 JB	0.22 JB	0.22 JB	NA	0.15 JB	0.18 JB
Caprolactam	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Carbazole	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Dibenzofuran	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Diethyl phthalate	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Dimethyl phthalate	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Di-n-butyl phthalate	mg/kg 0.91 U	NA	0.21 JB	NA	0.066 JB	0.068 JB	0.12 JB	NA	0.067 JB	0.072 JB
Di-n-octyl phthalate	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Hexachlorobenzene	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Hexachlorobutadiene	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Hexachlorocyclopentadiene	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Hexachloroethane	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Isophorone	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Nitrobenzene	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
N-Nitroso-di-n-propylamine	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
N-Nitrosodiphenylamine	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Phenol	mg/kg 0.91 U	NA	1.8 U	NA	1.5 U	1.5 U	2.4 U	NA	1.7 U	1.7 U
Total Conc	mg/kg 0.334	NA	2.52	NA	2.995	NA	6.17	NA	10.377	NA
Total Estimated Conc. (TICs)	mg/kg 199.55	NA	167.28	NA	493.29	37	434.6	NA	526.8	467

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOTS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name: TestAmerica Job ID Number: Sample Depth (feet bgs): Date Collected:	Units	SD-SD-43 (0-0.5) 20025816 0 - 0.5 12/08/14 Result Q	SD-SD-43 (0-0.5) 20025816 0 - 0.5 12/08/14 Second. Q	SD-SD-44 (0-0.5) 20025782 0 - 0.5 12/04/2014 Result Q	SD-SD-44 (0-0.5) 20025782 0 - 0.5 12/04/2014 Second. Q	SS-162 (0.5-0.1) 20026255 0.5 - 1 01/09/2015 Result Q	SS-162 (0.5-0.1) 20026255 0.5 - 1 01/09/2015 Second. Q	SS-163 (0.5-0.1) 20026255 0.5 - 1 01/09/2015 Result Q	SS-163 (0.5-0.1) 20026255 0.5 - 1 01/09/2015 Second. Q	SS-164 (0.5-1.0) 20026255 0.5 - 1 01/09/2015 Result Q	SS-164 (0.5-0.1) 20026255 0.5 - 1 01/09/2015 Second. Q
<b>SVOCs SIM</b>											
2-Methylnaphthalene	mg/kg	0.0041 J	NA	0.0130 J B	NA	0.0062 J	0.0061 J	0.0047 J	0.0049 J	0.0059 J	0.0061 J
Acenaphthene	mg/kg	0.008 J	NA	<b>0.0180 J</b>	NA	0.0059 J	0.0061 J	0.0063 J	0.0067 J	0.0045 J	0.0054 J
Acenaphthylene	mg/kg	0.0015 J	NA	0.0021 J	NA	0.0062 J	0.0074 J	0.0025 J	0.0025 J	0.0035 J	0.0037 J
Anthracene	mg/kg	0.0056 J	NA	0.0059 J	NA	0.0074 J	0.012 J	0.047 U	0.0088 J	0.033 U	0.0082 J
Benzo(a)anthracene	mg/kg	0.026	NA	0.0200 J	NA	0.068	0.092	0.028 J	0.046 J	0.054	0.069
Benzo(a)pyrene	mg/kg	0.047	NA	0.0240 J	NA	0.12	0.15	0.045 J	0.062	0.11	0.13
Benzo(b)fluoranthene	mg/kg	0.068	NA	0.0450	NA	0.12	0.15	0.052	0.075	0.11	0.14
Benzo(g,h,i)perylene	mg/kg	0.039	NA	0.0210 J	NA	0.063	0.086	0.031 J	0.051	0.053	0.064
Benzo(k)fluoranthene	mg/kg	0.043	NA	0.0290 J	NA	0.09	0.11	0.04 J	0.055	0.074	0.082
Chrysene	mg/kg	0.056	NA	0.0400	NA	0.1 B	0.13 B	0.039 J B	0.062 B	0.085 B	0.1 B
Dibenz(a,h)anthracene	mg/kg	0.0099 J	NA	0.0052 J	NA	0.02 J	0.033	0.0073 J	0.016 J	0.015 J	0.026 J
Fluoranthene	mg/kg	0.09	NA	0.0660	NA	0.18 B	0.27 B	0.071 B	0.14 B	0.11 B	0.2 B
Fluorene	mg/kg	0.0077 J	NA	0.0290 J B	NA	0.0096 J B	0.0097 J B	0.0067 J B	0.0074 J B	0.0059 J B	0.006 J B
Indeno(1,2,3-cd)pyrene	mg/kg	0.032	NA	0.0200 J	NA	0.063	0.089	0.028 J	0.05	0.054	0.068
Naphthalene	mg/kg	0.0058 J B	NA	0.0400 B	NA	0.0059 J B	0.0058 J B	0.0048 J B	0.0044 J B	0.0052 J B	0.0059 J B
Pentachlorophenol	mg/kg	0.036 U	NA	0.0730 U	NA	0.06 U	0.06 U	0.095 U	0.0027 J	0.068 U	0.068 U
Phenanthrene	mg/kg	0.067 B	NA	0.0510 B	NA	0.085 B	0.14 B	0.034 J B	0.075 B	0.057 B	0.11 B
Pyrene	mg/kg	0.08	NA	0.0620	NA	0.15	0.2	0.059	0.11	0.13	0.16
Total Conc	mg/kg	0.5906	NA	0.4912	NA	1.1002	NA	0.4593	NA	0.877	NA
<b>Polychlorinated Biphenyls</b>											
Aroclor-1016	mg/kg	0.17 U	NA	0.35 U	NA	0.29 U	NA	0.46 U	NA	0.34 U	NA
Aroclor-1221	mg/kg	0.17 U	NA	0.35 U	NA	0.29 U	NA	0.46 U	NA	0.34 U	NA
Aroclor-1232	mg/kg	0.17 U	NA	0.35 U	NA	0.29 U	NA	0.46 U	NA	0.34 U	NA
Aroclor-1242	mg/kg	0.17 U	NA	0.45	NA	0.29 U	NA	0.46 U	NA	0.34 U	NA
Aroclor-1248	mg/kg	0.17 U	NA	0.35 U	NA	0.29 U	NA	0.46 U	NA	0.34 U	NA
Aroclor-1254	mg/kg	0.17 U	NA	<b>0.35</b>	NA	0.024 J	NA	0.46 U	NA	0.03 J	NA
Aroclor-1260	mg/kg	0.17 U	NA	<b>0.06 J</b>	NA	<b>0.018 J</b>	NA	0.46 U	NA	<b>0.025 J</b>	NA
Aroclor-1262	mg/kg	0.17 U	NA	0.35 U	NA	0.29 U	NA	0.46 U	NA	0.34 U	NA
Aroclor-1268	mg/kg	0.17 U	NA	0.35 U	NA	0.29 U	NA	0.46 U	NA	0.34 U	NA
Total PCBs	mg/kg	0.17 U	NA	<b>0.86 J</b>	NA	0.042 J	NA	0.46 U	NA	0.055 J	NA
<b>Pesticides</b>											
2,4'-DDD	mg/kg	<b>0.1</b>	<b>0.091 D</b>	<b>0.0250 J</b>	NA	0.0037 J	NA	0.0019 J P	NA	0.002 J P	NA
2,4'-DDE	mg/kg	<b>0.023 P</b>	<b>0.022 J P D</b>	<b>0.0092 J P</b>	NA	0.00098 J P	NA	0.002 J P	NA	0.00087 J P	NA
2,4'-DDT	mg/kg	0.018 U	0.035 U	0.00088 J	NA	0.00066 J P	NA	0.00046 J P	NA	0.033 U	NA
4,4'-DDD	mg/kg	<b>0.43 E</b>	<b>0.39 D</b>	<b>0.067</b>	NA	0.003 J P	NA	0.0025 J P	NA	0.0048 J	NA
4,4'-DDE	mg/kg	<b>0.19</b>	<b>0.16 D</b>	<b>0.012 J P</b>	NA	0.0032 J	NA	0.0021 J P	NA	<b>0.0057 J</b>	NA
4,4'-DDT	mg/kg	0.00065 J P	0.00063 J P D	0.003 J P	NA	0.029 U	NA	0.045 U	NA	0.00064 J P	NA
Aldrin	mg/kg	0.0091 U	0.018 U	<b>0.0032 J P</b>	NA	0.015 U	NA	0.023 U	NA	0.017 U	NA
alpha-BHC	mg/kg	0.0091 U	0.018 U	0.00055 J P	NA	0.00033 J	NA	0.00051 J P	NA	0.017 U	NA
alpha-Chlordane	mg/kg	0.0091 U	0.018 U	<b>0.013 J</b>	NA	0.0016 J P	NA	0.0042 J	NA	0.0018 J P	NA
beta-BHC	mg/kg	0.00029 J P B	0.018 U	0.0013 J P B	NA	0.0014 J P B	NA	0.0025 J B	NA	0.0026 J B	NA
delta-BHC	mg/kg	0.0091 U	0.018 U	0.018 U	NA	0.015 U	NA	0.0049 J P	NA	0.017 U	NA
Dieldrin	mg/kg	0.018 U	0.035 U	<b>0.0034 J P</b>	NA	0.029 U	NA	0.045 U	NA	0.0011 J	NA
Endosulfan I	mg/kg	0.0091 U	0.018 U	0.0014 J P	NA	0.00058 J P	NA	0.0011 J	NA	0.0007 J	NA
Endosulfan II	mg/kg	0.00032 J P	0.035 U	0.035 U	NA	0.029 U	NA	0.045 U	NA	0.033 U	NA
Endosulfan sulfate	mg/kg	0.018 U	0.035 U	0.00061 J P	NA	0.00033 J P	NA	0.045 U	NA	0.033 U	NA
Endrin	mg/kg	0.018 U	0.035 U	0.035 U	NA	0.00054 J	NA	0.045 U	NA	0.00048 J P	NA
Endrin aldehyde	mg/kg	0.00045 J P	0.00071 J D	0.0027 J P	NA	0.0012 J P B	NA	0.0015 J P B	NA	0.011 J P B	NA
Endrin ketone	mg/kg	0.018 U	0.035 U	0.035 U	NA	0.00054 J P	NA	0.00048 J P	NA	0.00071 J P	NA
gamma-BHC (Lindane)	mg/kg	0.0091 U	0.018 U	0.0180 U	NA	0.015 U	NA	0.023 U	NA	0.017 U	NA
gamma-Chlordane	mg/kg	0.00026 J P	0.018 U	<b>0.0130 J</b>	NA	0.00095 J	NA	0.023 U	NA	0.017 U	NA
Heptachlor	mg/kg	0.00019 J P B	0.018 U	0.0180 U	NA	0.00045 J P B	NA	0.001 J P B	NA	<b>0.00079 J B</b>	NA
Heptachlor epoxide	mg/kg	<b>0.0091 U</b>	<b>0.018 U</b>	<b>0.00037 J P</b>							

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOLLS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

Sample Name:	SD-SD-43 (0-0.5)	SD-SD-43 (0-0.5)	SD-SD-44 (0-0.5)	SD-SD-44 (0-0.5)	SS-162 (0.5-0.1)	SS-162 (0.5-0.1)	SS-163 (0.5-0.1)	SS-163 (0.5-0.1)	SS-164 (0.5-1.0)	SS-164 (0.5-0.1)
TestAmerica Job ID Number:	20025816	20025816	20025782	20025782	20026255	20026255	20026255	20026255	20026255	20026255
Sample Depth (feet bgs):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0.5 - 1	0.5 - 1	0.5 - 1	0.5 - 1	0.5 - 1	0.5 - 1
Date Collected:	12/08/14	12/08/14	12/04/2014	12/04/2014	01/09/2015	01/09/2015	01/09/2015	01/09/2015	01/09/2015	01/09/2015
Result	Q	Second.	Q	Result	Q	Second.	Q	Result	Q	Second.
<b>Inorganics</b>										
Aluminum	mg/kg	29100 E	NA	4380	NA	6200	NA	3750	NA	2700
Antimony	mg/kg	0.76 J N	NA	1.7 J	NA	2.2 J	NA	2.7 J	NA	3.5 J
Arsenic	mg/kg	6.2	NA	8.6	NA	8.2	NA	14.5	NA	8.6
Barium	mg/kg	155 E	NA	243	NA	187	NA	99.6	NA	75.4
Beryllium	mg/kg	1.5 E	NA	0.50	NA	0.92	NA	0.28 J	NA	0.22 J
Cadmium	mg/kg	0.56 J	NA	3.8	NA	1.2	NA	1.4	NA	1.3
Calcium	mg/kg	3520 E	NA	14900	NA	16400	NA	14300	NA	13700
Chromium	mg/kg	26.2 E	NA	40.9	NA	13.7	NA	7.7	NA	5.1
Cobalt	mg/kg	4.8 J E	NA	7.5	NA	5.1	NA	9.4	NA	2.3 J
Copper	mg/kg	30.7 E	NA	135	NA	49.7	NA	36.2	NA	35.7
Cyanide	mg/kg	0.33 J	NA	4.5	NA	0.13 J	NA	0.45 U	NA	0.076 J
Iron	mg/kg	12900 E	NA	73300	NA	12200	NA	23000	NA	6460
Lead	mg/kg	50.4	NA	160	NA	73.6	NA	81.1	NA	101
Magnesium	mg/kg	1640 E	NA	622	NA	1250	NA	1780	NA	1740
Manganese	mg/kg	102 E	NA	314	NA	385	NA	328	NA	149
Mercury	mg/kg	0.20 J	NA	0.89	NA	0.65	NA	0.53	NA	0.55
Nickel	mg/kg	15.8 E	NA	58.3	NA	16.0	NA	16.0	NA	11.3
Potassium	mg/kg	582 J E	NA	159 J	NA	194 J	NA	220 J	NA	129 J
Selenium	mg/kg	2.2 J	NA	3.2 U	NA	3.5	NA	2.0 J	NA	2.6 J
Silver	mg/kg	1.5 U	NA	0.93 U	NA	0.19 J	NA	0.32 J	NA	0.47 J
Sodium	mg/kg	79.6 J	NA	101 J	NA	473	NA	964	NA	848
Thallium	mg/kg	1.9 U	NA	0.56 J	NA	1.9 U	NA	2.3 U	NA	2.4 U
Vanadium	mg/kg	49.7 E	NA	18.0	NA	30.9	NA	35.1	NA	31.0
Zinc	mg/kg	63.7 E	NA	637	NA	119	NA	156	NA	115
<b>Miscellaneous</b>										
pH	su	6.81 HF	NA	6.45 HF	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
TOC	mg/kg	118000 B	NA	311000 B	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Moisture	%	81	NA	91	NA	83	NA	17	NA	71
<b>Grainsize</b>										
Clay	%	12.8	NA	12	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Coarse Sand	%	3.3	NA	18	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Fine Sand	%	29.8	NA	15	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Gravel	%	0.0	NA	5.4	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Hydrometer Reading 1 - Percent Finer	% passing	47.7	NA	40	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Hydrometer Reading 2 - Percent Finer	% passing	27.3	NA	27	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Hydrometer Reading 3 - Percent Finer	% passing	21.5	NA	22	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Hydrometer Reading 4 - Percent Finer	% passing	17.1	NA	18	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Hydrometer Reading 5 - Percent Finer	% passing	12.8	NA	12	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Hydrometer Reading 6 - Percent Finer	% passing	5.1	NA	12	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Hydrometer Reading 7 - Percent Finer	% passing	3.3	NA	12	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Medium Sand	%	15.9	NA	21	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sand	%	49.0	NA	54	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size #10 - Percent Finer	% passing	96.7	NA	77	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size #100 - Percent Finer	% passing	59.6	NA	44	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size #20 - Percent Finer	% passing	91.1	NA	63	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size #200 - Percent Finer	% passing	51.0	NA	41	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size #4 - Percent Finer	% passing	100	NA	95	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size #40 - Percent Finer	% passing	80.8	NA	56	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size #60 - Percent Finer	% passing	69.9	NA	53	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size #80 - Percent Finer	% passing	63.3	NA	49	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size 0.375 inch - Percent Finer	% passing	100	NA	100	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size 0.75 inch - Percent Finer	% passing	100	NA	100	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size 1 inch - Percent Finer	% passing	100	NA	100	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size 1.5 inch - Percent Finer	% passing	100	NA	100	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size 2 inch - Percent Finer	% passing	100	NA	100	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Sieve Size 3 inch - Percent Finer	% passing	100	NA	100	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received
Silt	%	38.2	NA	29	NA	Data Not Yet Received	NA	Data Not Yet Received	NA	Data Not Yet Received

**TABLE 1**  
**SAMPLE SUMMARY TABLE - SEDIMENT**  
**ROLLING KNOTS LANDFILL SUPERFUND SITE**  
**CHATHAM, NEW JERSEY**

**Abbreviations:**

% = percent  
 DUP = duplicate sample  
 mg/kg = milligrams per kilogram  
 NA = not analyzed  
 NJDEP = New Jersey Department of Environmental Protection  
 NS = no standard  
 PCBs = polychlorinated biphenyls  
 SU = standard units  
 TOC = total organic carbon

**Data Qualifiers:**

B = The compound has been found in the sample as well as its associated blank.  
 HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.  
 P = Dual column analysis resulted in greater than 25% difference for detected concentrations between the two columns.

\*T = There are no TICs reported.

U = The compound was analyzed for but not detected.

\* = The surrogate exceeds the control limit.

**Organics:**

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

**Inorganics:**

J = The sample result is greater than the MDL but below the CRDL.

**Notes:**

1. Analytical data presented in this table have not been validated and reduced.
2. EBSLs are represented by the NJDEP Freshwater Sediment Criteria Lowest Effects Level as presented in the NJDEP Ecological Screening Criteria Table, dated March 2009.

Bold values indicate detected concentrations greater than the EBSL. Italicized concentrations indicate non detected concentrations greater than the EBSL.

3. The following surrogates were used for screening values:

1,3-dichloropropene (total) for cis-1,3-dichloropropene and trans-1,3-dichloropropene

4,4'-DDD, 4,4'-DDE and 4,4'-DDT for 2,4'-DDD, 2,4'-DDE and 2,4'-DDT, respectively

chlordane for alpha-chlordane and gamma-chlordane

endosulfans - endosulfan I and endosulfan II

gamma-BHC for delta-BHC

total PCBs for Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1262 and Aroclor-1268

total xylenes for m,p-xylenes and o-xylene

trans-1,2-dichloroethene for cis-1,2-dichloroethene

4. Total xylenes calculated as the sum of o-xylene and m,p-xylene using only detected or estimated values.

5. Total PCBs calculated as the sum of Aroclors using only detected or estimated values.

6. Samples SS-162 through SS-164 were identified in the field as sediment samples and therefore are included with the sediment results.